

Datasheet for ABIN734003

anti-Elastin antibody (AA 681-786)[Go to Product page](#)**1** Validation**7** Images**4** Publications

Overview

Quantity:	100 µL
Target:	Elastin (ELN)
Binding Specificity:	AA 681-786
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Elastin antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Flow Cytometry (FACS)

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Elastin
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.

Target Details

Target:	Elastin (ELN)
Alternative Name:	Elastin (ELN Products)

Target Details

Background:	Synonyms: WS, WBS, SVAS, Elastin, Tropoelastin, ELN Background: Major structural protein of tissues such as aorta and nuchal ligament, which must expand rapidly and recover completely. Molecular determinant of the late arterial morphogenesis, stabilizing arterial structure by regulating proliferation and organization of vascular smooth muscle (By similarity).
Gene ID:	2006
UniProt:	P15502
Pathways:	Regulation of Actin Filament Polymerization

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 FCM 1:20-100 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
Restrictions:	For Research Use only

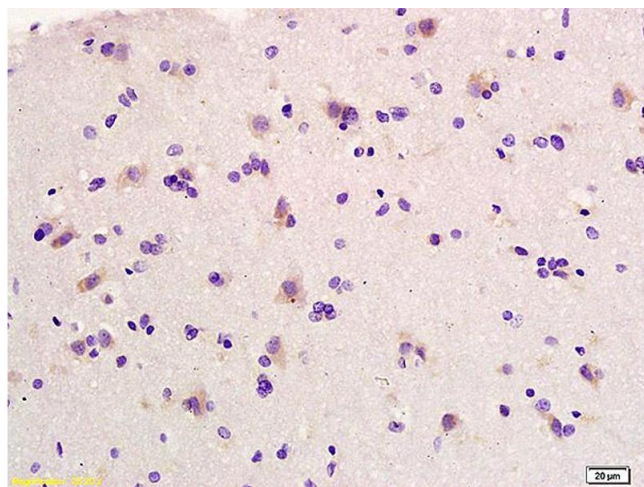
Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

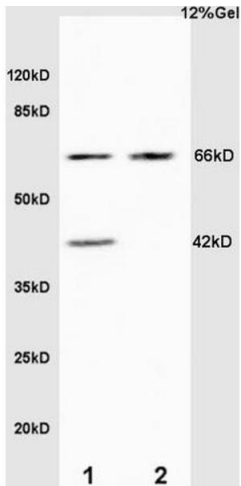
- Product cited in: Hasegawa, Sato, Shirai, Watanabe, Yamamoto, Watanabe, Nohtomi, Hirano, Watanabe: "Vasoprotective effects of urocortin 1 against atherosclerosis in vitro and in vivo." in: **PLoS ONE**, Vol. 9, Issue 12, pp. e110866, (2014) ([PubMed](#)).
- Konii, Sato, Kikuchi, Okiyama, Watanabe, Hasegawa, Yamamoto, Itoh, Hirano, Watanabe: "Stimulatory effects of cardiotrophin 1 on atherosclerosis." in: **Hypertension**, Vol. 62, Issue 5, pp. 942-50, (2013) ([PubMed](#)).
- Guo, Li, Dong, Chen, Deng, Wang, Ying: "Piezoelectric PU/PVDF electrospun scaffolds for wound healing applications." in: **Colloids and surfaces. B, Biointerfaces**, Vol. 96, pp. 29-36, (2012) ([PubMed](#)).
- Ikeda, Yada, Takase: "[Syntheses of 1,3,4-thiadiazole derivatives]." in: **Yakugaku zasshi : Journal of the Pharmaceutical Society of Japan**, Vol. 90, Issue 1, pp. 95-8, (1970) ([PubMed](#)).

Validation report #028751 for Immunohistochemistry (IHC)



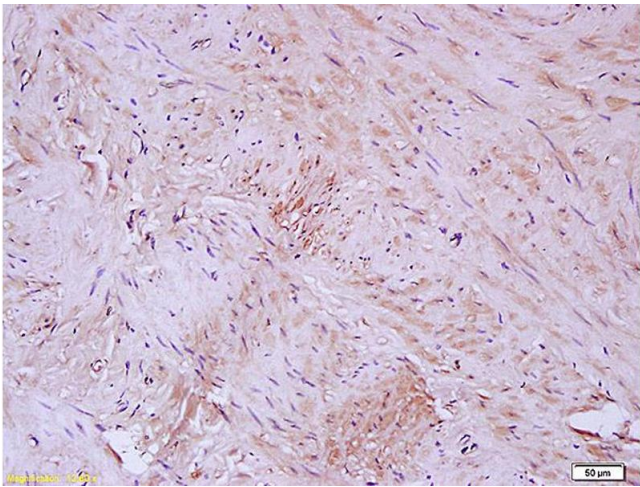
Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded human glioma labeled with Anti-Elastin Polyclonal Antibody, Unconjugated (ABIN734003) at 1:200 followed by conjugation to the secondary antibody and DAB staining.



SDS-PAGE

Image 2. L1 mouse intestine lysates L2 rat lung lysates probed with Anti Alpha Elastin Polyclonal Antibody, Unconjugated (ABIN734003) at 1:200 overnight at 4 °C. Followed by conjugation to secondary antibody at 1:3000 for 90 min at 37 °C. Predicted band 66kD. Observed band size: 66kD



Immunohistochemistry

Image 3. Formalin-fixed and paraffin embedded human artery labeled with Anti-Elastin Polyclonal Antibody, Unconjugated (ABIN734003) at 1:200 followed by conjugation to the secondary antibody and DAB staining.

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN734003.



Successfully validated (Immunohistochemistry (IHC))

by [Beth Israel Deaconess Medical Center Confocal Imaging Core](#)

Report Number: 028751

Date: Sep 25 2013

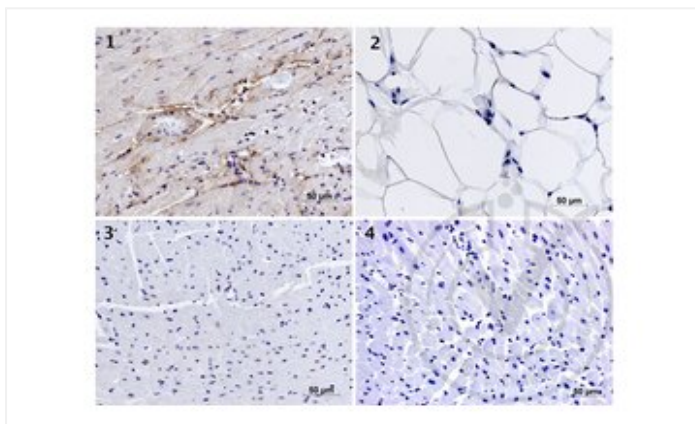
Lot Number:	120306
Method validated:	Immunohistochemistry (IHC)
Positive Control:	Mouse heart tissue
Negative Control:	Mouse adipose tissue
Notes:	Signal was detected in positive control tissue and not detected in negative control tissue.
Primary Antibody:	- Antibody: Elastin (ELN) (C-Term) antibody - Catalog number: ABIN734003 - Lot number: 120306
Secondary Antibody:	- Antibody: Donkey anti-Rabbit IgG Antibody (Biotinylated) - Catalog number: 711-065-152 - Supplier: Jackson ImmunoResearch
Isotype:	- Antibody: Rabbit IgG isotype control - Catalog number: bs-0295P - Supplier: Bioss - Lot number: YYDW72P
Controls:	<ul style="list-style-type: none">• Positive control: Wild type mouse heart tissue (specimen known to contain the target protein).• Negative control: Wild type adipose tissue (specimen known to not contain the target protein).• Primary antibody isotype control: Wild type mouse heart treated with primary antibody isotype control instead of the primary antibody.• Secondary antibody only control: Wild type mouse heart treated with secondary antibody only (no primary antibody).
Protocol:	<ul style="list-style-type: none">• Immunohistochemistry was performed manually.• Sections were deparaffinized and rehydrated.• Sections were heated to 98°C for 10 min in 10 mM citrate buffer pH 6.0 for antigen retrieval.• Sections were incubated in 3% hydrogen peroxide for 10 min at room temperature to block endogenous peroxidase.• Sections were washed x 3 in Tris buffered saline (TBS).• Sections were blocked in 5% normal donkey serum for 60 min at room temperature.• Sections were incubated with primary antibody diluted 1:1000 in 5% normal donkey serum in

TBS. Incubated at 4°C overnight.

- Sections were washed x 3 in Tris buffered saline.
- Sections were incubated with secondary antibody diluted 1:400 in 5% normal donkey serum in TBS. Incubated for 60 min at room temperature.
- Sections were washed x 3 in Tris buffered saline.
- Sections were incubated with Vectastain ABC kit (Vector Lab PK6100) to enhance signal.
- Sections were incubated with DAB chromogenic substrate (Vector Lab SK-4105) for 60 seconds at room temperature.
- Sections were washed x 3 in Distilled Water.
- Sections were counterstained with hematoxylin for 1 min.
- Sections were washed x 1 in Distilled Water.
- Sections were dehydrated, mounted and photographed under a Zeiss AxioImager M1 light microscope.

Experimental Notes: None

Image for Validation report #028751



Validation image no. 1 for anti-Elastin (ELN) (AA 681-786) antibody (ABIN734003)

Figure 1: Immunostaining of Elastin antibody. Panel 1: Staining of mouse heart tissue stained with anti-Elastin antibody (brown). Panel 2: Staining of mouse adipose tissue with anti-Elastin antibody. Panel 3: Staining of mouse heart tissue with isotype control antibody. Panel 4: Staining of mouse heart tissue with secondary antibody only. All panels are counterstained with hematoxylin (blue).